

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/869,414A

DATE: 01/23/2003

TIME: 08:07:07

Input Set : A:\6280M.txt

Output Set: N:\CRF4\01232003\I869414A.raw

59 tccacaaatg cgctgggtat cgggccacg gtgatggagg gcttctacgt catttcgac 1260
 60 agagccaga agagggtgcc cttcgcagcg agcccctgtc cagaaattgc aggtgctgca 1320
 61 gtgtctgaaa ttccggggcc tttctcaaca gaggatgtag ccagcaactg tgtccccgt 1380
 62 cagtcttga gcgagcccat ttgtggatt gtgtcctatg cgctcatgag cgtctgtgga 1440
 63 gccatcctcc ttgtcttaat cgtcctgctg ctgctgcccgt tccgggtgtca gcgtcgcccc 1500
 64 cgtgaccctg aggtcgtcaa tgatgagtcc tctctgtca gacatcgctg gaaatgaata 1560
 65 gccaggcctg acctcaagca accatgaact cagctattaa gaaaatcaca ttccaggc 1620
 66 agcagccggg atcgatggtg gcgccttctc ctgtgcccac ccgtcttcaa tctctgttct 1680
 67 gctcccagat gccttctaga ttcaactgtct ttgattctt gatttcaag cttaaaatc 1740
 68 ctccctactt ccaagaaaaa taattaaaaa aaaaacttca ttctaaacca aaaaaaaaaa 1800
 69 aaaa 1804
 71 <210> SEQ ID NO: 2
 72 <211> LENGTH: 518
 73 <212> TYPE: PRT
 74 <213> ORGANISM: Homo sapiens
 76 <400> SEQUENCE: 2
 77 Met Gly Ala Leu Ala Arg Ala Leu Leu Leu Pro Leu Leu Ala Gln Trp
 78 1 5 10 15
 80 Leu Leu Arg Ala Ala Pro Glu Leu Ala Pro Ala Pro Phe Thr Leu Pro
 81 20 25 30
 83 Leu Arg Val Ala Ala Ala Thr Asn Arg Val Val Ala Pro Thr Pro Gly
 84 35 40 45
 86 Pro Gly Thr Pro Ala Glu Arg His Ala Asp Gly Leu Ala Leu Ala Leu
 87 50 55 60
 89 Glu Pro Ala Leu Ala Ser Pro Ala Gly Ala Ala Asn Phe Leu Ala Met
 90 65 70 75 80
 92 Val Asp Asn Leu Gln Gly Asp Ser Gly Arg Gly Tyr Tyr Leu Glu Met
 93 85 90 95
 95 Leu Ile Gly Thr Pro Pro Gln Lys Leu Gln Ile Leu Val Asp Thr Gly
 96 100 105 110
 98 Ser Ser Asn Phe Ala Val Ala Gly Thr Pro His Ser Tyr Ile Asp Thr
 99 115 120 125
 101 Tyr Phe Asp Thr Glu Arg Ser Ser Thr Tyr Arg Ser Lys Gly Phe Asp
 102 130 135 140
 104 Val Thr Val Lys Tyr Thr Gln Gly Ser Trp Thr Gly Phe Val Gly Glu
 105 145 150 155 160
 107 Asp Leu Val Thr Ile Pro Lys Gly Phe Asn Thr Ser Phe Leu Val Asn
 108 165 170 175
 111 Ile Ala Thr Ile Phe Glu Ser Glu Asn Phe Phe Leu Pro Gly Ile Lys
 112 180 185 190
 114 Trp Asn Gly Ile Leu Gly Leu Ala Tyr Ala Thr Leu Ala Lys Pro Ser
 115 195 200 205
 117 Ser Ser Leu Glu Thr Phe Phe Asp Ser Leu Val Thr Gln Ala Asn Ile
 118 210 215 220
 120 Pro Asn Val Phe Ser Met Gln Met Cys Gly Ala Gly Leu Pro Val Ala
 121 225 230 235 240
 123 Gly Ser Gly Thr Asn Gly Gly Ser Leu Val Leu Gly Gly Ile Glu Pro
 124 245 250 255
 127 Ser Leu Tyr Lys Gly Asp Ile Trp Tyr Thr Pro Ile Lys Glu Glu Trp

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128	260	265	270
130	Tyr Tyr Gln Ile Glu Ile Leu Lys	Leu Glu Ile Gly Gly	Gln Ser Leu
131	275	280	285
133	Asn Leu Asp Cys Arg Glu Tyr Asn Ala Asp Lys	Ala Ile Val Asp Ser	
134	290	295	300
136	Gly Thr Thr Leu Leu Arg	Leu Pro Gln Lys Val Phe Asp Ala Val Val	
137	305	310	315
139	Glu Ala Val Ala Arg Ala Ser Leu Ile	Pro Glu Phe Ser Asp Gly Phe	
140	325	330	335
142	Trp Thr Gly Ser Gln Leu Ala Cys	Trp Thr Asn Ser Glu Thr Pro Trp	
143	340	345	350
145	Ser Tyr Phe Pro Lys Ile Ser Ile	Tyr Leu Arg Asp Glu Asn Ser Ser	
146	355	360	365
148	Arg Ser Phe Arg Ile Thr Ile	Leu Pro Gln Leu Tyr Ile Gln Pro Met	
149	370	375	380
151	Met Gly Ala Gly Leu Asn Tyr Glu Cys Tyr	Arg Phe Gly Ile Ser Pro	
152	385	390	395
154	Ser Thr Asn Ala Leu Val Ile Gly Ala	Thr Val Met Glu Gly Phe Tyr	
155	405	410	415
157	Val Ile Phe Asp Arg Ala Gln Lys Arg	Val Gly Phe Ala Ala Ser Pro	
158	420	425	430
160	Cys Ala Glu Ile Ala Gly Ala Ala Val	Ser Glu Ile Ser Gly Pro Phe	
161	435	440	445
163	Ser Thr Glu Asp Val Ala Ser Asn Cys Val	Pro Ala Gln Ser Leu Ser	
164	450	455	460
167	Glu Pro Ile Leu Trp Ile Val Ser Tyr Ala	Leu Met Ser Val Cys Gly	
168	465	470	475
170	Ala Ile Leu Leu Val Leu Ile Val	Leu Leu Leu Pro Phe Arg Cys	
171	485	490	495
173	Gln Arg Arg Pro Arg Asp Pro Glu Val	Val Asn Asp Glu Ser Ser Leu	
174	500	505	510
176	Val Arg His Arg Trp Lys		
177	515		
180	<210> SEQ ID NO: 3		
181	<211> LENGTH: 2070		
182	<212> TYPE: DNA		
183	<213> ORGANISM: Homo sapiens		
185	<400> SEQUENCE: 3		
186	atggcccaag ccctgccctg gtcctgtcg tggatggcg cggagtgct gcctgcccac	60	
187	ggcacccagc acggcatccg gtcgcctcg cgacgcggcc tggggggcgc cccctgggg	120	
188	ctgcggctgc cccggagac cgacgaagag cccgaggagc cggccggag ggcagcttt	180	
189	gtggagatgg tggacaacct gagggcaag tcggggcagg gctactacgt ggagatgacc	240	
190	gtgggcagcc cccgcagac gctcaacatc ctggggata caggcagcag taactttgca	300	
191	gtgggtctg cccccaccc ttccctgcat cgctactacc agaggcagct gtccagcaca	360	
192	taccgggacc tccggaaagggtgttatgtg ccctacaccc agggcaagt ggaaggggag	420	
193	ctgggcaccc acctggtaag catccccat ggccccaacg tcactgtgcg tgccaacatt	480	
194	gtgtccatca ctgaatcaga caagttcttc atcaacggct ccaactggga aggcatcctg	540	
195	gggctggcct atgctgagat tgccaggcct gacgactccc tggagcctt ctttgactct	600	
196	ctggtaaagc agaccacgt tcccaacctc ttctccctgc acctttgtgg tgctggcttc	660	

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260 Ala Ala Ile Thr Glu Ser Asp Lys Phe Phe Ile Asn Gly Ser Asn Trp
 261 165 170 175
 263 Glu Gly Ile Leu Gly Leu Ala Tyr Ala Glu Ile Ala Arg Pro Asp Asp
 264 180 185 190
 266 Ser Leu Glu Pro Phe Phe Asp Ser Leu Val Lys Gln Thr His Val Pro
 267 195 200 205
 269 Asn Leu Phe Ser Leu His Leu Cys Gly Ala Gly Phe Pro Leu Asn Gln
 270 210 215 220
 272 Ser Glu Val Leu Ala Ser Val Gly Gly Ser Met Ile Ile Gly Gly Ile
 273 225 230 235 240
 275 Asp His Ser Leu Tyr Thr Gly Ser Leu Trp Tyr Thr Pro Ile Arg Arg
 276 245 250 255
 278 Glu Trp Tyr Tyr Glu Val Ile Ile Val Arg Val Glu Ile Asn Gly Gln
 279 260 265 270
 281 Asp Leu Lys Met Asp Cys Lys Glu Tyr Asn Tyr Asp Lys Ser Ile Val
 282 275 280 285
 284 Asp Ser Gly Thr Thr Asn Leu Arg Leu Pro Lys Lys Val Phe Glu Ala
 285 290 295 300
 287 Ala Val Lys Ser Ile Lys Ala Ala Ser Ser Thr Glu Lys Phe Pro Asp
 288 305 310 315 320
 290 Gly Phe Trp Leu Gly Glu Gln Leu Val Cys Trp Gln Ala Gly Thr Thr
 291 325 330 335
 293 Pro Trp Asn Ile Phe Pro Val Ile Ser Leu Tyr Leu Met Gly Glu Val
 294 340 345 350
 296 Thr Asn Gln Ser Phe Arg Ile Thr Ile Leu Pro Gln Gln Tyr Leu Arg
 297 355 360 365
 299 Pro Val Glu Asp Val Ala Thr Ser Gln Asp Asp Cys Tyr Lys Phe Ala
 300 370 375 380
 302 Ile Ser Gln Ser Ser Thr Gly Thr Val Met Gly Ala Val Ile Met Glu
 303 385 390 395 400
 305 Gly Phe Tyr Val Val Phe Asp Arg Ala Arg Lys Arg Ile Gly Phe Ala
 306 405 410 415
 308 Val Ser Ala Cys His Val His Asp Glu Phe Arg Thr Ala Ala Val Glu
 309 420 425 430
 312 Gly Pro Phe Val Thr Leu Asp Met Glu Asp Cys Gly Tyr Asn Ile Pro
 313 435 440 445
 315 Gln Thr Asp Glu Ser Thr Leu Met Thr Ile Ala Tyr Val Met Ala Ala
 316 450 455 460
 318 Ile Cys Ala Leu Phe Met Leu Pro Leu Cys Leu Met Val Cys Gln Trp
 319 465 470 475 480
 321 Arg Cys Leu Arg Cys Leu Arg Gln Gln His Asp Asp Phe Ala Asp Asp
 322 485 490 495
 324 Ile Ser Leu Leu Lys
 325 500
 328 <210> SEQ ID NO: 5
 329 <211> LENGTH: 1977
 330 <212> TYPE: DNA
 331 <213> ORGANISM: Homo sapiens
 333 <400> SEQUENCE: 5

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/869,414A

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Input Set : A:\6280M.txt
Output Set: N:\CRF4\01232003\I869414A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:74; Xaa Pos. 1,2,3,4

VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:3890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0